

1 **SECTION 9-06, STRUCTURAL STEEL AND RELATED MATERIALS**

2 **October 28, 1996**

3 This section is revised by adding the following:

4
5 **9-06.16 Roadside Sign Structures**

6 All bolts shall conform to ASTM A 325. Washers for bolts shall be hardened steel
7 per AASHTO M 293.

8
9 Posts for single post sign structures shall meet the requirements of ASTM A 36 or
10 ASTM A 53 Grade B.

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12 Posts for multiple post sign structures shall meet the requirements of AASHTO M
13 183. Posts meeting the requirements of AASHTO M 222, AASHTO M 223, or
14 ASTM A 572 Grade 50 may be used as an acceptable alternate to the AASHTO
15 M 183 posts. All steel not otherwise specified shall conform to AASHTO M 183.

16
17 Triangular base stiffeners for one-directional multi-post sign posts shall meet the
18 requirements of AASHTO M 222, AASHTO M 223, or ASTM A 572 Grade 50.

19
20 Base connectors for multiple directional steel breakaway posts shall conform to
21 the following:

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23 brackets	Aluminum Alloy 6061 T-6
24 bosses for Type 2B brackets	ASTM A 582
25 coupling bolts	ASTM A 325
26 anchor bolts	ASTM 304 stainless steel for threaded
27	portion. AISI 1038 steel rod and AISI
28	1008 coil for cage portion.

29

30 Anchor couplings for multiple directional steel breakaway posts shall have a
31 tensile breaking strength range as follows:

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33 Type 2A	17,000 to 21,000 lb.
34 Type 2B	47,000 to 57,000 lb.

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36 For multi-directional breakaway base connectors, shims shall be fabricated from
37 pregalvanized sheet steel. For one-directional breakaway base connectors,
38 single post or multi-post, shims shall be fabricated from brass conforming to
39 ASTM B 36.

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41 **9-06.5(5) Bolt, Nut, and Washer Specifications**

42 The ASTM Specification for "Washers - High Strength Bolts" is revised to read "F
43 436".